

Title (en)

BATTERY PACK, ASSEMBLY METHOD OF BATTERY PACK, AND DISASSEMBLY METHOD OF BATTERY PACK

Title (de)

BATTERIEPACK, MONTAGEVERFAHREN FÜR BATTERIEPACK UND DEMONTAGEVERFAHREN FÜR BATTERIEPACK

Title (fr)

BLOC-BATTERIE, PROCÉDÉ D'ASSEMBLAGE DE BLOC-BATTERIE ET PROCÉDÉ DE DÉSASSEMBLAGE DE BLOC-BATTERIE

Publication

EP 4290657 A3 20240731 (EN)

Application

EP 22196047 A 20220916

Priority

CN 202210567058 A 20220523

Abstract (en)

A battery pack, an assembly method thereof, and a disassembly method thereof are provided. The battery pack includes a battery box (10), a first battery assembly, a second battery assembly, and a separator (40). The separator (40) is located between the second battery assembly and the first battery assembly. An expansion gap is formed between a first surface (21) and a second surface (31), the expansion gap gradually expands from a second direction, and/or an expansion structure is formed between a third surface (41) and a fourth surface (42), the expansion structure gradually expands from a second direction. The second direction is perpendicular to the first direction, and the second direction extends from a bottom surface of the battery box (10) toward a top surface of the battery box (10).

IPC 8 full level

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CPC (source: CN EP US)

H01M 50/204 (2021.01 - CN); **H01M 50/209** (2021.01 - EP US); **H01M 50/233** (2021.01 - EP US); **H01M 50/242** (2021.01 - EP); **H01M 50/244** (2021.01 - CN EP US); **H01M 50/264** (2021.01 - CN EP); **H01M 50/289** (2021.01 - EP US); **H01M 50/291** (2021.01 - CN EP); **H01M 50/262** (2021.01 - EP US); **H01M 2220/20** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

- [XAI] US 2020411819 A1 20201231 - SEKI HIDEKI [JP], et al
- [XII] DE 102014221944 A1 20160428 - BOSCH GMBH ROBERT [DE]
- [A] EP 3883007 A1 20210922 - SAMSUNG SDI CO LTD [KR]
- [A] US 2021296745 A1 20210923 - NAKASHIMA KENICHIRO [JP], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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